

2010 RELEASE UNDER E.O. 14176

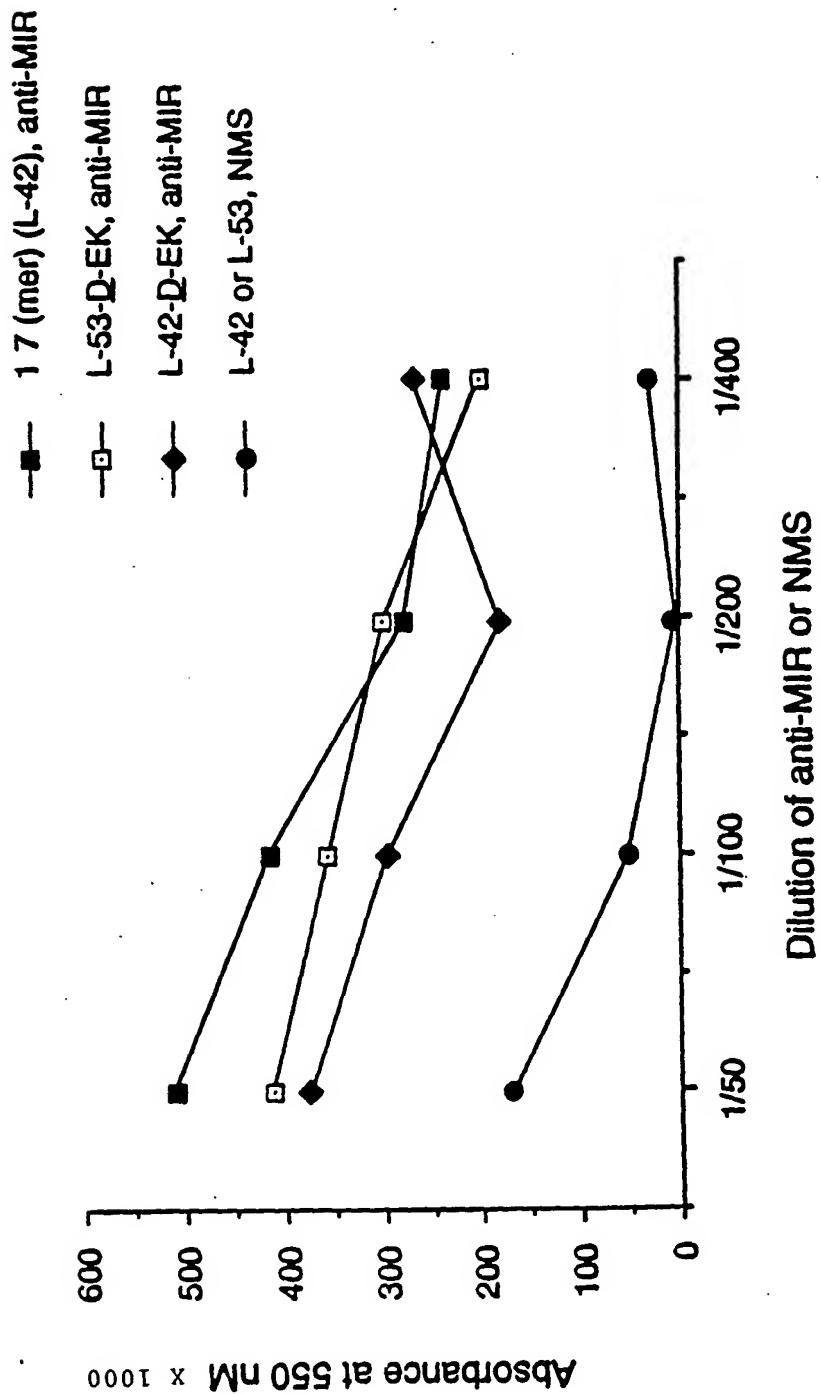


FIG. 1

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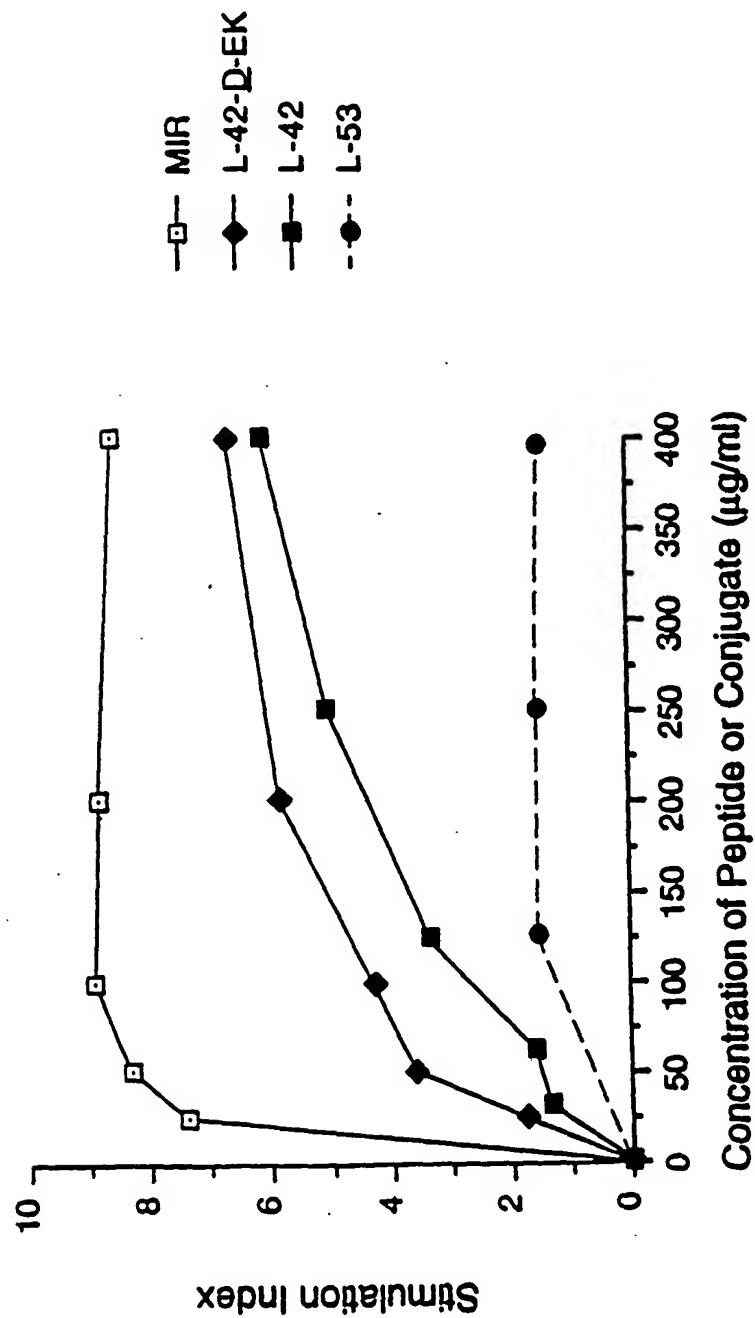


FIG. 2

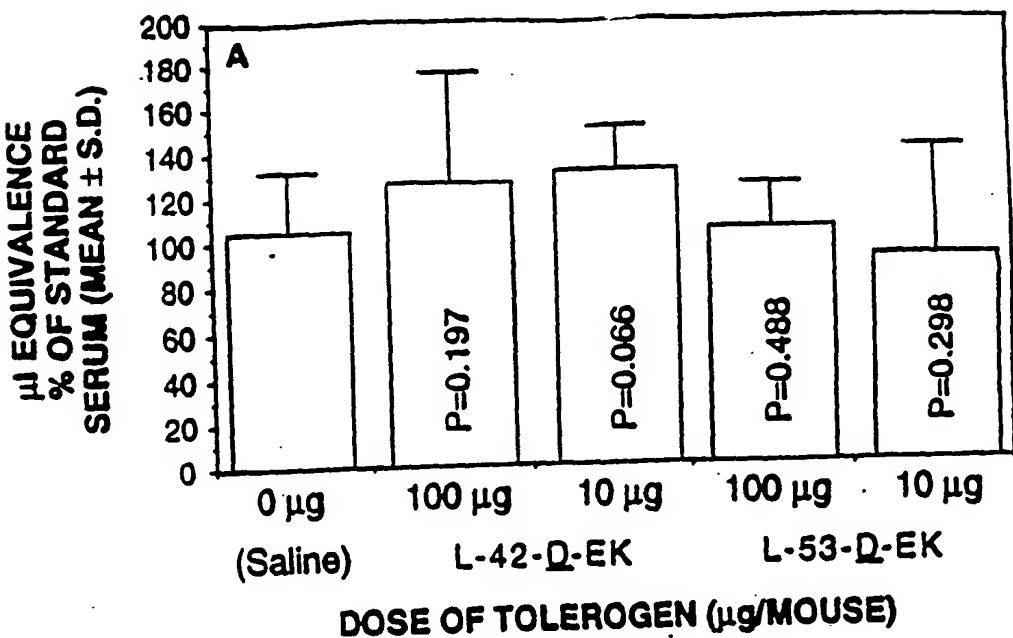


FIG. 3A

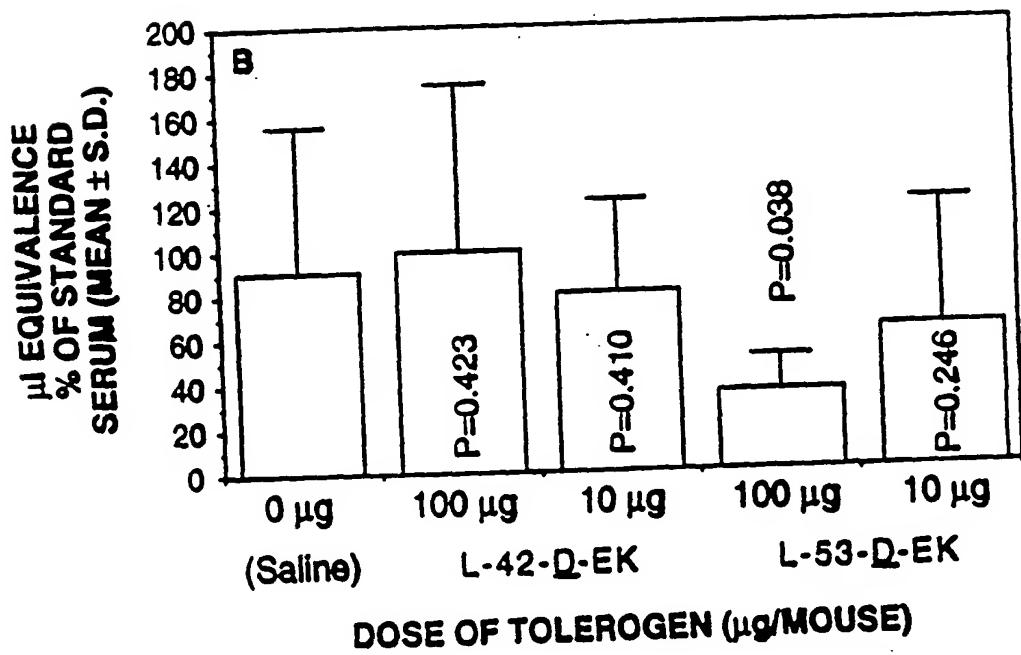


FIG. 3B

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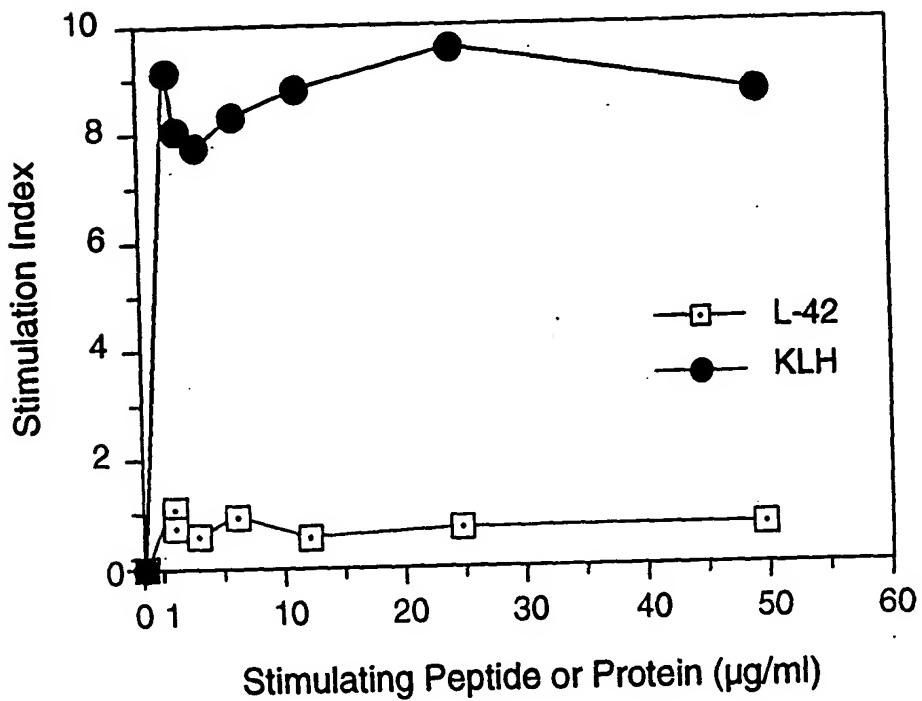


FIG. 4

1000 800 600 400 200 0

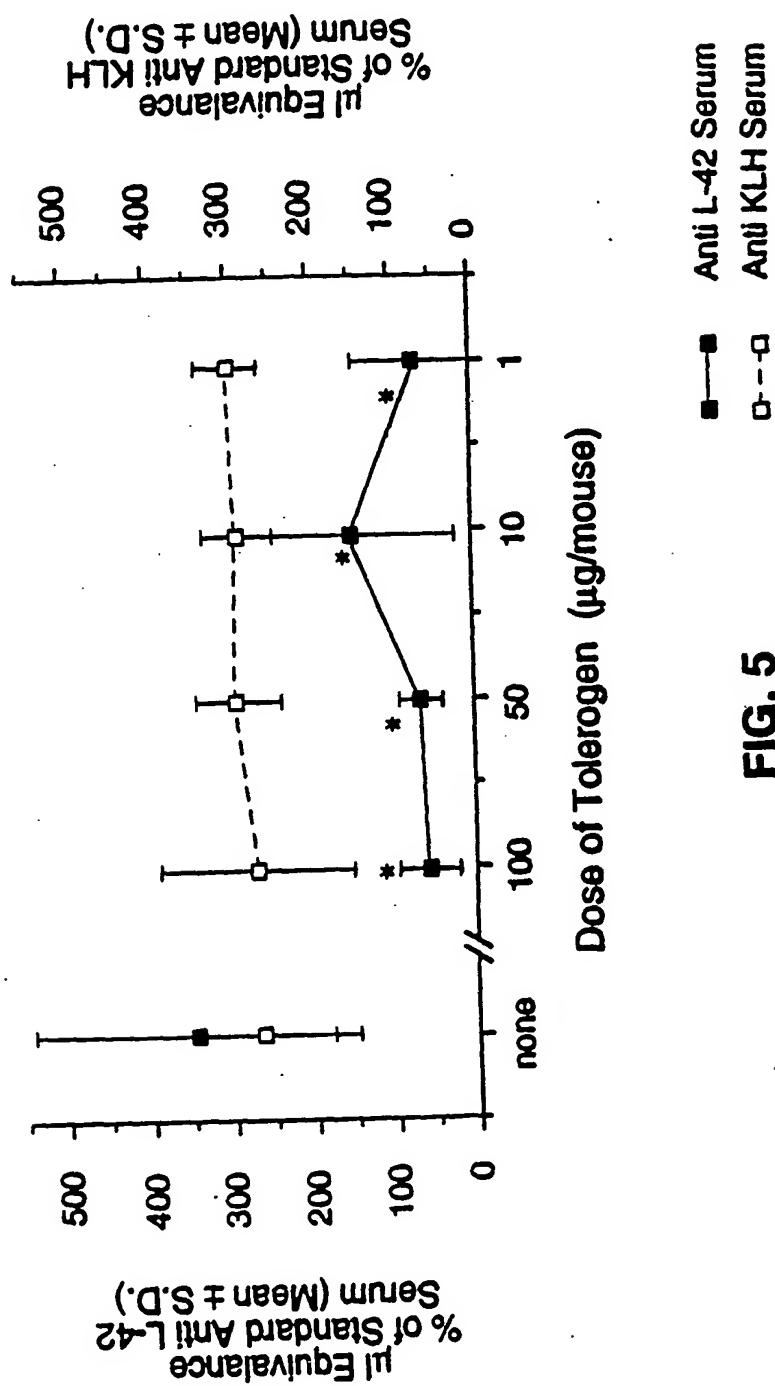


FIG. 5

### T Cell Proliferation Induced by Mellitin Peptides

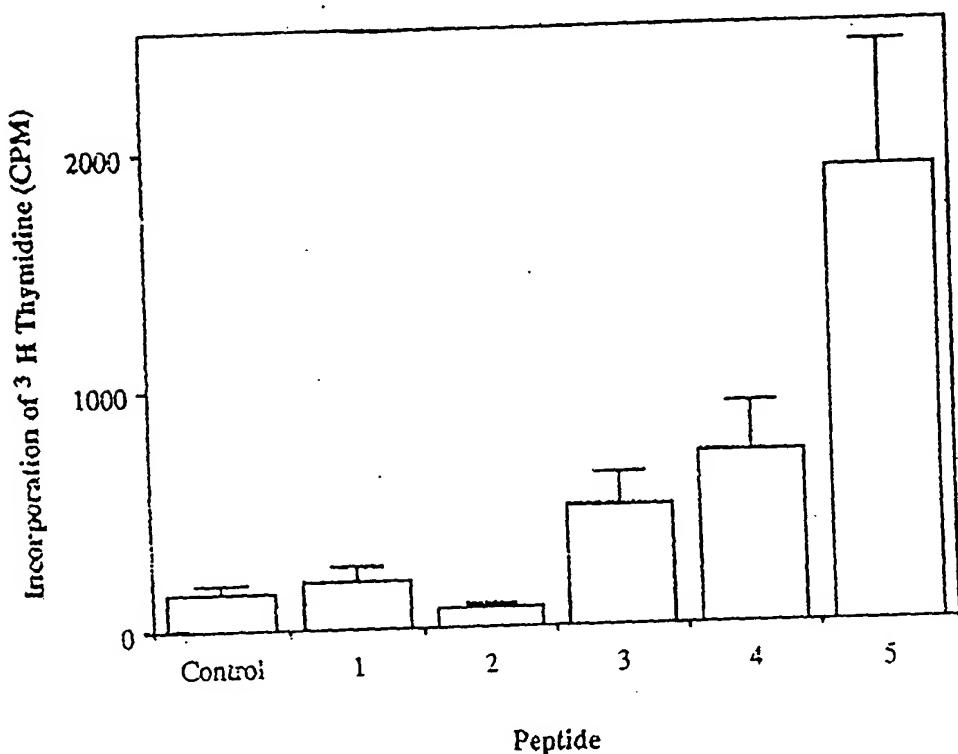


FIGURE 6

IgG serum circulating Ab to melittin peptide 2

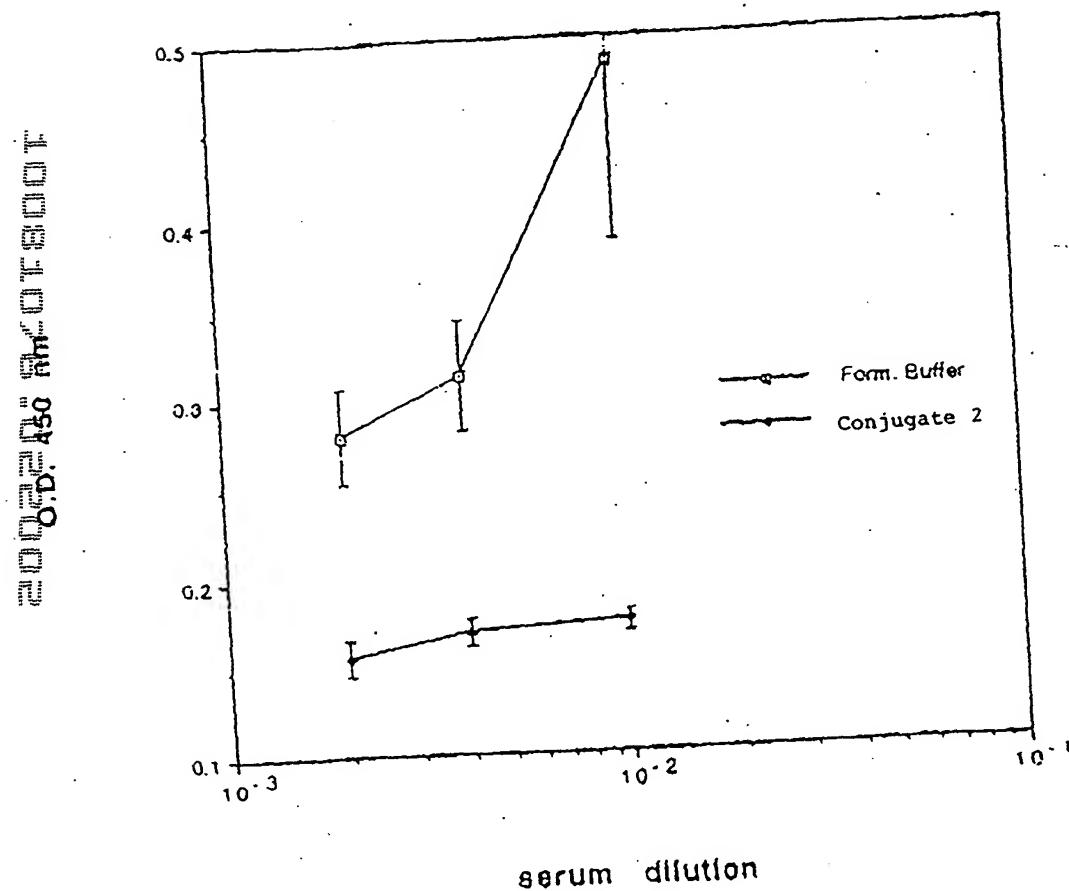


FIGURE 7

IgG serum circulating levels to Melittin

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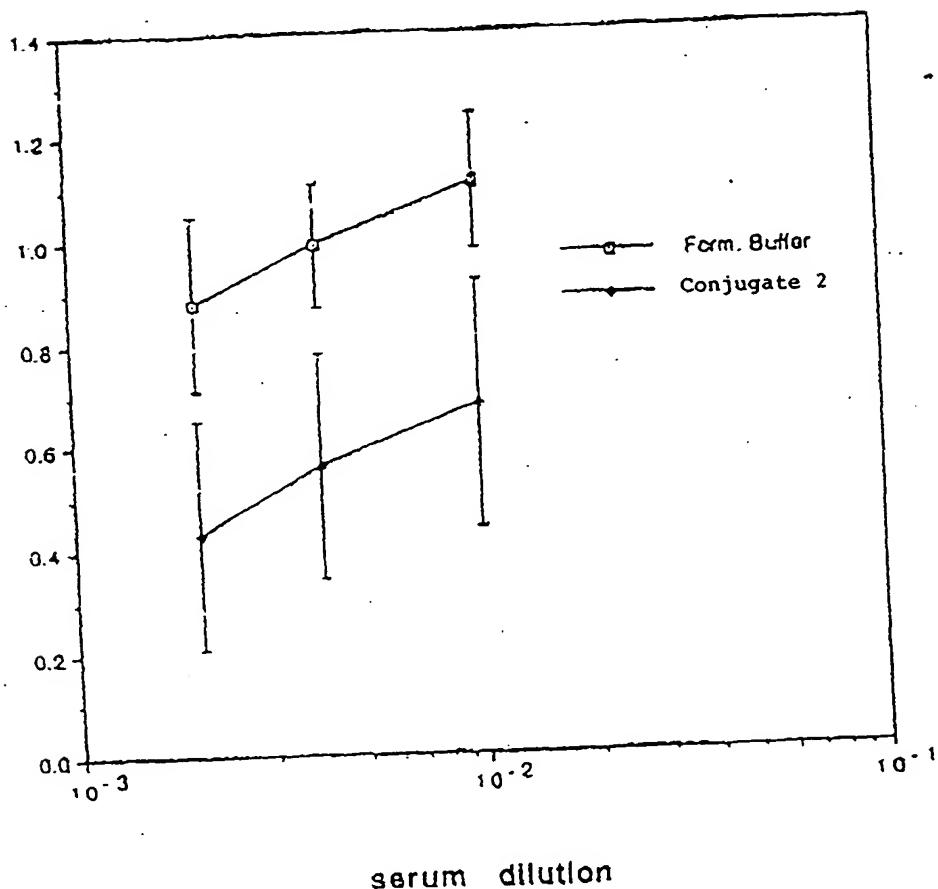
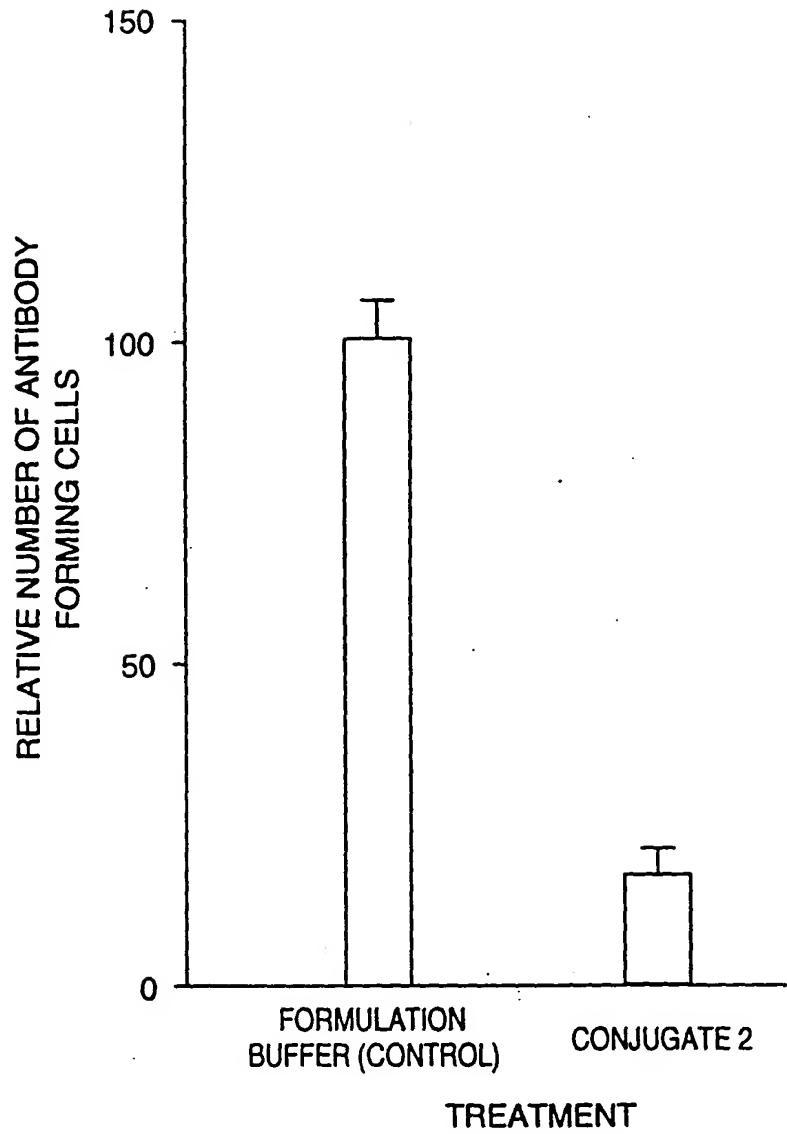


FIGURE 8



**FIG. 9**

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IgG serum circulating Ab to Peptide 5

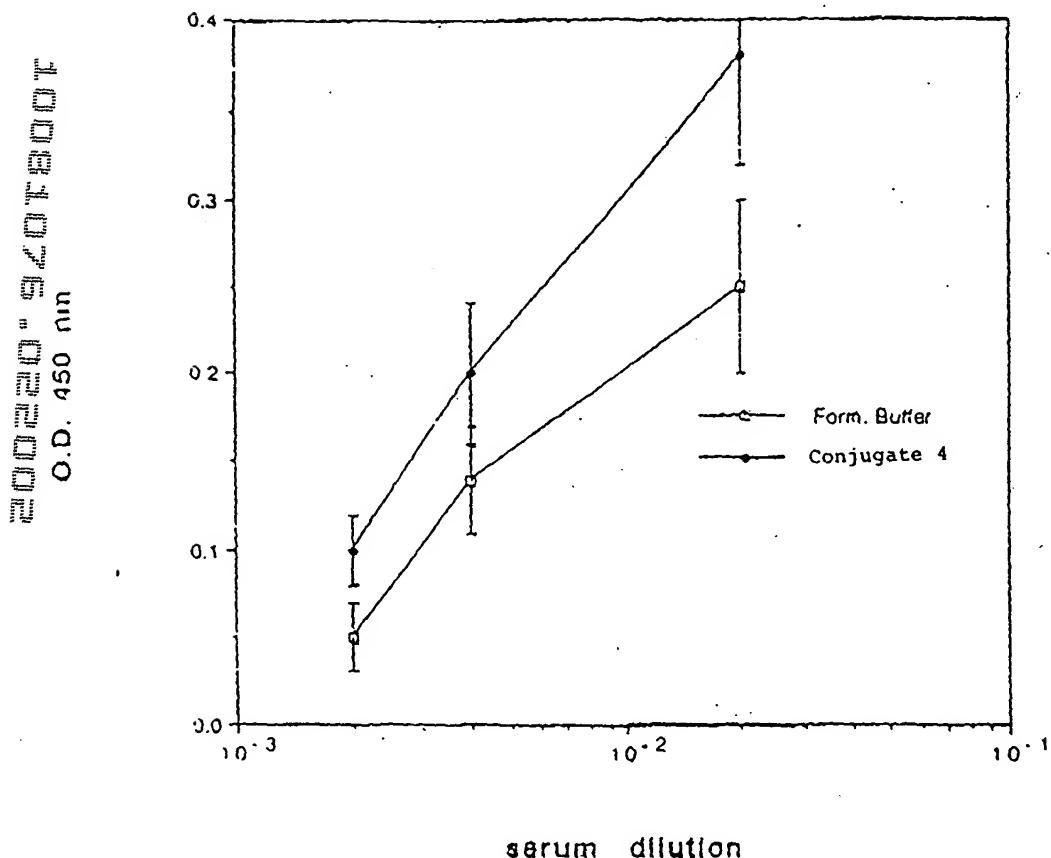


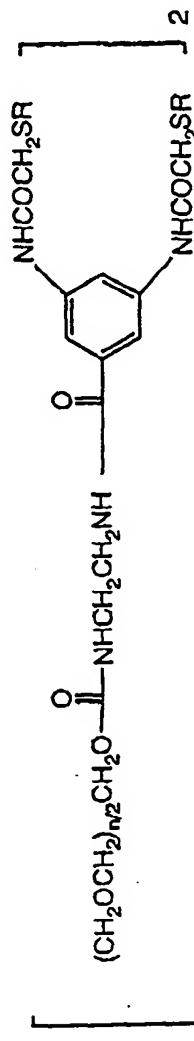
FIGURE 10

## Melittin Peptide Conjugates



Melittin Conjugate # 1, R = H<sub>2</sub>N-Trp-Ile-Lys-Arg-Lys-Arg-Gln-Lys-Cys-Gly-CO<sub>2</sub>H

Average n = approx. 74



Melittin Conjugate # 2, R = H<sub>2</sub>N-Cys-Trp-Ile-Lys-Arg-Lys-Arg-Gln-Gly-CO<sub>2</sub>H  
Melittin Conjugate # 3, R = H<sub>2</sub>N-Trp-Ile-Lys-Arg-Lys-Arg-Gln-Gln-Lys-Cys-Gly-CO<sub>2</sub>H  
Melittin Conjugate # 4, R = H<sub>2</sub>N-Cys-Ile-Ser-Tip-Ile-Lys-Arg-Lys-Arg-Gln-Gln-Gly-CO<sub>2</sub>H  
Melittin Conjugate # 5, R = (H<sub>2</sub>N-Trp-Ile-Lys-Arg-Gln-Gln)₂-Lys-Arg-Gln-Gln

Melittin peptides attached through sulfur atom on added cysteine, average n = approx. 74

FIGURE 11